

# ***METHOD FOR ASSEMBLING TILED DETECTORS FOR IONIZING RADIATION BASED IMAGE DETECTION***

## **Abstract of Disclosure**

The present technique provides a multi-tile detector and a process for assembling the multi-tile detector using a flexible structure and intermediate electrical connections. The present technique minimizes edge gaps between adjacent detector tiles by coupling the detector tiles to the flexible structure and then flexing the flexible structure to close the edge gaps. Intermediate electrical connections, such as interlayer solder bumps, also may be used to minimize visible artifacts associated with tiling of the detector tiles. The present technique also may use a plurality of soldering materials having different melting temperatures to facilitate multiple soldering steps that are nondestructive of previous soldering steps.

## Figures

Figure 1: A line graph showing the relationship between the number of hours spent studying and the score on a test. The x-axis represents the number of hours (0 to 10), and the y-axis represents the score (0 to 100). The data points are as follows:

Hours	Score
0	0
1	10
2	20
3	30
4	40
5	50
6	60
7	70
8	80
9	90
10	100